

B6.129S6-*Ch25h*^{tm1Rus} /J

Stock No: **016263** | *Ch25h*

 Congenic, Targeted Mutation

Live mice available in varying quantities. Ask Customer Service for details.

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innate and adaptive immune system interactions.

Donating Investigator

Dr. David Russell, Univ of Texas Southwest Med Ctr Dallas

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GENETIC OVERVIEW

Genetic Background

Generation

N11+N1F11
(2021-04-06 00:00:00)

Ch25h^{tm1Rus}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Ch25h

Gene Name

cholesterol 25-hydroxylase

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$255.00 Domestic price for female 4-week

V I E W P R I C E L I S T

Details

Detailed Description

Stimulation of toll-like receptors has been shown to normally induce the expression of *Ch25h* (cholesterol 25-hydroxylase) in macrophages. *Il2* (interleukin 2)-mediated stimulation of B cell proliferation is suppressed, activation-induced cytidine deaminase (AID) expression is repressed, and immunoglobulin class switch recombination is blocked, leading to markedly decreased IgA production.

The *Ch25h* gene was deleted in this targeted mutant strain. Homozygotes have excessive levels of IgA in their sera, mucosa, and the bronchial fluid of the lungs. This strain may be useful in studies of innate immune system regulation of adaptive immune responses.

Development

Control Suggestions

Selected References

Genetics

Ch25h^{tm1Rus}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

Standard PCR:[Ch25h](#)

Standard PCR:[Ch25h](#)

[Genotyping resources and troubleshooting](#)

Mating System

Homozygote x Homozygote

Citation

When using the Ch25h^{-/-} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #016263 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX10 \(Standard\)](#)

[- Pricing & Availability](#)



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Available

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Ch25h ^{tm1Rus}	\$255.00
	Male	Homozygous for Ch25h ^{tm1Rus}	\$255.00
5 weeks	Female	Homozygous for Ch25h ^{tm1Rus}	\$255.00

	SEX	Homozygous for Ch25h ^{tm1Rus}	\$255.00
6 weeks	Female	Homozygous for Ch25h ^{tm1Rus}	\$255.00
	Male	Homozygous for Ch25h ^{tm1Rus}	\$255.00
7 weeks	Female	Homozygous for Ch25h ^{tm1Rus}	\$255.00
	Male	Homozygous for Ch25h ^{tm1Rus}	\$255.00
8 weeks	Female	Homozygous for Ch25h ^{tm1Rus}	\$255.00
	Male	Homozygous for Ch25h ^{tm1Rus}	\$255.00
9 weeks	Female	Homozygous for Ch25h ^{tm1Rus}	\$255.00
	Male	Homozygous for Ch25h ^{tm1Rus}	\$255.00
10 weeks	Female	Homozygous for Ch25h ^{tm1Rus}	\$255.00
	Male	Homozygous for Ch25h ^{tm1Rus}	\$255.00
11 weeks	Female	Homozygous for Ch25h ^{tm1Rus}	\$255.00
	Male	Homozygous for Ch25h ^{tm1Rus}	\$255.00
12 weeks	Female	Homozygous for Ch25h ^{tm1Rus}	\$255.00
	Male	Homozygous for Ch25h ^{tm1Rus}	\$255.00

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129S6-Ch25h ^{tm1Rus} /J Frozen Embryo	\$2595.00
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PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

THE JACKSON LABORATORY'S GENOTYPE PROMISE

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

TERMS OF USE

[General Terms and Conditions](#)

Q U E S T I O N S A B O U T T E R M S O F U S E

ADDITIONAL USE RESTRICTIONS APPLY

Use of MICE by companies or for-profit entities requires a license prior to shipping.

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

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By Gene

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